

BLAST REPORT

BLAST REPORT # WS 06☐ Sanders Construction, Inc.☒ Western States Drilling & Blasting, Inc.DATE: JULY 8, 2010EXACT TIME OF SHOT: 8:08 PMCUSTOMER: KLBJOB NO.: WS 21005SHOT LOCATION WITH GPS COORDINATES: Sta 1309 - 1337+00

TICKET NO.: _____

CHECK LIST COMPLETED: YES NO

TYPE OF ROCK: BASALTFACE HEIGHT: N/A FT.

POUNDS PER DELAY: _____

TOTAL HOLES: 75NUMBER OF HOLES: 75HOLE DIA: 1 1/2 B x S _____ x _____STEMMING: 3-4 ft DEPTH: 3-5 ft

NUMBER OF HOLES: _____

HOLE DIA: _____ B x S _____ x _____

STEMMING: _____ DEPTH: _____

POWDER FACTOR: _____

LBS. OF EXPLOSIVES: 55YARDS OF ROCK: ~150WEATHER: CLEARWIND: CALMEXACT MONITOR LOCATION(GPS): Sta 1342+00DIRECTION OF BLAST: W

MONITOR TYPE: _____

MONITOR: L/R NO TRIGGER PVS _____ Db _____MONITOR SERIAL NO.: 829

DISTANCE TO BLAST: _____

AVERAGE POUNDS PER HOLE: _____

OPERATOR: _____

EXACT MONITOR LOCATION(GPS): _____

DIRECTION OF BLAST: _____

MONITOR TYPE: _____

MONITOR: L/R _____ T _____ V _____ PVS _____ Db _____

MONITOR SERIAL NO.: _____

DISTANCE TO BLAST: _____

AVERAGE POUNDS PER HOLE: _____

OPERATOR: _____

EXPLOSIVES

DESCRIPTION	QUANTITY USED	DATE CODE	MAGAZINE	REMOVED	RETURNED
LOCATION:					
BULK A/N	Lbs				
BAG ANFO	Bags				<u>CALM</u>
POWDER <u>1 1/2" Max Force</u>	<u>55#</u> ea.	<u>09NO09b4</u>	<u>F 3155</u>	<u>55#</u>	<u>0</u>
POWDER <u>1 1/2" Max Force</u>	<u>55#</u> ea.	<u>070622</u>	<u>F 2088</u>	<u>55#</u>	<u>0</u>
lb. BOOSTER	ea.				
lb. BOOSTER	ea.				
<u>16'</u> ft. EXCEL	<u>45</u> ea.	<u>09NO09b4</u>	<u>F 3155</u>	<u>45</u>	<u>0</u>
<u>16'</u> ft. EXCEL	<u>30</u> ea.	<u>02NO09b4</u>	<u>F 3155</u>	<u>90</u>	<u>60</u>
<u>50'</u> ft. C-DET	<u>27</u> ea.	<u>08JAO1b4</u>	<u>F 3155</u>	<u>27</u>	<u>0</u>
ft.	ea.				
ft.	ea.				
ft.	ea.				
ft. ms	ea.				
<u>2000' LIL</u>	<u>2000</u> ft.	<u>05API0b4</u>	<u>F 3155</u>	<u>2000</u>	<u>0</u>
GRAIN CORD	ft.				
GRAIN CORD	ft.				
MISCELLANEOUS					

COMMENTS:

SECONDARY BLASTING OF BOULDERSBLASTER'S SIGNATURE: Chen AnLICENSE NO.: U21262

Revised 03/04

ATTACH SKETCH OF SHOT

THIS FORM MUST BE FILLED OUT COMPLETELY

Check List

Date July 8, 2010

Job Number WS 21005

Shot Number WS 06

1. BEFORE BLASTING

NOTIFICATION

- ☒ Fire Department
- ☒ Utilities
- ☒ Businesses & Home Owners
- ☒ Seismograph Tech
- ☐ Other (List)

MATERIAL & EQUIPMENT

- ☒ Adequate Stemming Material
- ☒ Warning Signs
- ☒ Warning Signals
- ☒ Safe Amount of Lead Line
- ☒ Seismograph Paper, Pens, etc.
- ☒ Fire Extinguishers (charged)
- ☒ Adequate Blasting Shelter
- ☒ Mats (If Applicable)

SHOT DESIGN

- ☒ Pattern OK for Area
- ☒ Sufficient Burden to Face
- ☒ Reviewed drill logs
- ☒ Measured Depth, Burden & Spacing
- ☒ Shot Area Posted & Secure
- ☒ Shot Diagrammed on Back

2. DURING LOADING

CONSTANT CHECKS

- ☒ Explosives
- ☒ Running Inventory
- ☒ Access Row Empty
- ☒ Drills & Traffic 50' Away
- ☒ Shot can be fired in case of emergency
- All Holes to be checked & approved
- ☒ Blaster initial
- ☒ Supt initial

3. DETONATION

HOOK - UP

- ☒ All Unnecessary Crew Cleared
- ☒ All Holes Loaded & Stemmed
- ☒ Hand Check tubing Before Each Connection
- ☒ Visually Insured That Each Connection is Snapped

SECURE AREA

- ☒ Set up Seismograph
- ☒ Est. Checkpoints at Each Access
- ☒ Radio Communication with Checkpoints.
- ☒ Cleared People, Vehicles & Equipment
- ☒ Visual Coverage of Entire Site
- ☒ Five Minute Warning
- ☒ One Minute Warning

4. AFTER DETONATION

POST BLAST CHECK

- ☒ Waited for Dust & Fumes to Dissipate
- ☒ Walked Entire Area of Shot
- ☒ Insured that tail Surface Delays Fired at the End of Each Row
- ☒ Sounded All Clear Signal

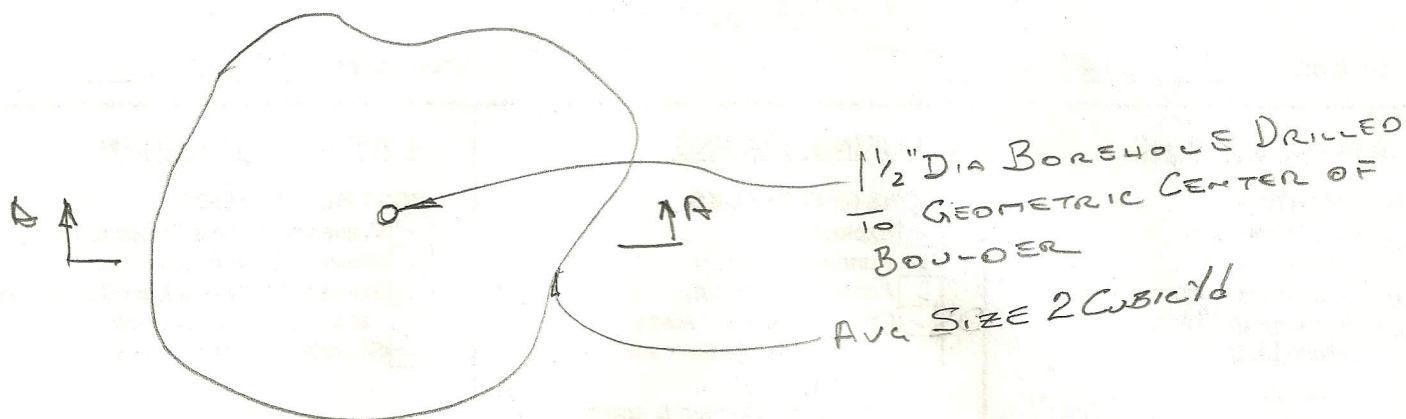
LEGAL DOCUMENTATION

- ☒ Completed Shot Report
- ☒ Diagramed Shot w/ Seismograph Location (Direction & Distance)
- ☒ Recorded Seismic Results on Blast Report
- ☒ Final Inventory of Explosives Recorded
- ☒ Ticket Number Assigned By Job Supervisor
- ☒ Signed Blast Report w/ License No.

Supt has checked and verified that all has been completed and shot area is ready for loading

Cam

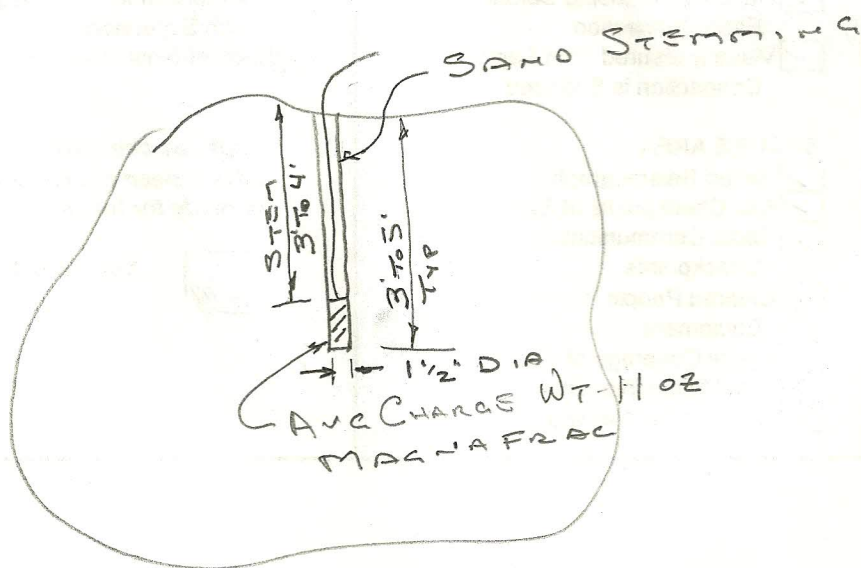
Supt initial



TYPICAL FREE STANDING BOULDER

NTS

ESTIMATED Avg SIZE 2 Cubic Yd



SECTION AA